

LPIC-1 101-400 – Lesson 18 – Lab

- * Enter into your Lab Environment
- # du /etc # calculate the size of /etc
- # du -h /etc # same but show the result in human readable form
- # du -sh /etc # show only /etc not the contents
- # du -Ssh /etc # calculate only /etc not subdirectories
- # du -sh /etc/* # show only the contents of /etc
- # du -sch /etc/* # show only the contents of /etc and their sum
- # du -ch /etc /boot # Calculate both /etc and /boot
- # du -sh # run du in working directory
- # du -sh / # run du on the root directory
- # du -shx / # run du on the root filesystem only
- # du --apparent-size -shx / # find the apparent size
- # df -h / # compare it to the reported usage by df
- # du -h --max-depth=2 /usr # show the size of /usr contents up to 2 subdirectories deep

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- `# df -h # show filesystems usage`
- `# df -h /usr # show usage of filesystem where /usr lies`
- `# df -h /usr/share # show usage of filesystem where /usr/share lies`
- `# df -hT # show filesystems usage along with filesystem type`
- `# df -ah # show all filesystems, even virtual`
- `# df -i # show inode usage for filesystems`
- `# fsck /dev/vda1 # check vda1. Did it work?`
- `# mkfs -t ext4 /dev/vdb1 # create an ext4 filesystem on vdb1`
- `# mount /dev/vdb1 /mnt # mount it on /mnt`
- `# df -hT /mnt # check it out`
- `# fsck /dev/vdb1 # run fsck on vdb1. Did it work?`
- `# umount /dev/vda1 # unmount /dev/vdb1`
- `# fsck -N /dev/vdb1 # don't run just simulate`
- `# fsck /dev/vdb1 # run fsck. Did it work?`



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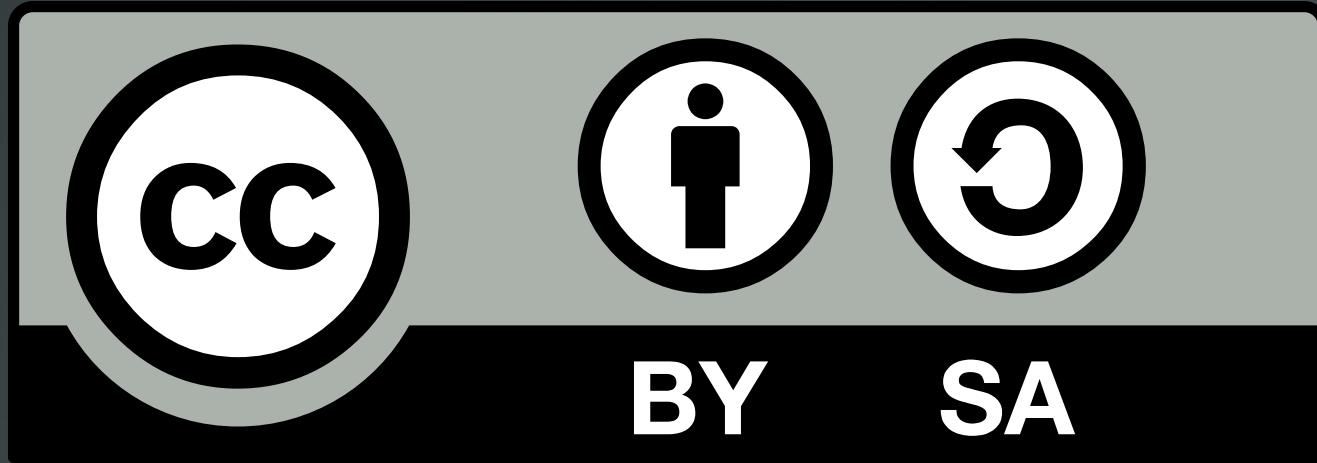
- `# fsck -f /dev/vdb1 # force check vdb1`
- `# fsck -fv /dev/vd1 # force check with verbose output`
- `# debugfs /dev/vdb1 # interactively repair vda1`
- `: help # see help for debug`
- `: quit # I have no idea what I'm doing!`
- `# dumpe2fs /dev/vdb1 | less # show extended information for vdb1`
- `# dumpe2fs -h /dev/vdb1 | less # skip group descriptors`
- `# tune2fs -l /dev/vdb1 # list filesystem parameter values`
- `# tune2fs -l /dev/vda1 | grep name # find vda1 label`
- `# tune2fs -l /dev/vdb1 | grep name # find vdb1 label`
- `# umount /dev/vdb1 # unmount vdb1`
- `# tune2fs -L 'RECOVERY' /dev/vdb1 # set label for vdb1`
- `# tune2fs -l /dev/vdb1 | grep name # verify`

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- `# tune2fs -l /dev/vdb1 | grep -i uuid` # check the UUID of **vdb1**
- `# tune2fs -c 0 -i 0 /dev/sda1` # disable mount or time related checking
- `# tune2fs -l /dev/vdb1 | grep -i reserve` # check reserved space for the root user
- `# tune2fs -m 10 /dev/vdb1` # increase reserved space to 10%
- `# tune2fs -l /dev/vdb1 | grep -i reserve` # verify



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